



## ENGINE

Model	: ISUZU AI-4JJ1X
Type	: Water cooled, 4 cycle, 4 cylinders, line type direct injection, turbocharger, intercooler, electronic diesel engine
Power	: 123 HP (92 kW) @2000 rpm / SAE J1995 (Gross) : 113 HP (84,7 kW) @2000 rpm / SAE J1349 (Net)
Max. Torque	: 420 Nm @1800 rpm (Gross) : 393 Nm @1800 rpm (Net)
Displacement	: 2999 cc
Bore and Stroke	: 95,4 mm x 104,9 mm
* This engine complies with the Emission Regulations U.S. EPA Tier III, and EU Stage III-A	

## LOWER STRUCTURE (CHASSIS)

Chassis	: Box shaped, reinforced lower chassis, front dozer blade and rear outriggers (stabilizers) as standard figures.
Axles	: The pivot pin mounted front axle allows two options: 8° in each direction for best matching conditions, or could be locked at any desired position for perfect stability.
Tires	: 9,00-20TT (14PR) : 18R 19,5XF (Optional) : 10,00 - 20 16 TT PR (Optional)

## CAB

- Improved operator's all round visibility
- Increased cabin internal space
- Use of six viscount cabin mountings that dampen the vibrations
- High capacity A/C
- Opera Control System
- Cooled storage room
- Glass holder, book and object storage pockets
- Pool type floor mat
- Improved operator's comfort through versatile adjustable seat

## TRAVEL AND BRAKERS

Travel	: Fully hydrostatic
Travel Motors	: Axial piston type
Reduction	: 2 stage planetary gear
Travel Speed	
High Speed	: 33 km/h
Low Speed	: 9 km/h
Max. Drawbar Pull	: 7.710 kgf
Gradeability	: 29° (%55)
Service Brake	: Independent front/rear style (double circuit) hydraulic power brake system. Pressure engaged/spring released type. Located "on hub" for ideal stability and safety.

## STEERING SYSTEM

The "orbitrol" type steering system controls a steering cylinder located on the front axle. Minimum turning radius is 6,800 mm.

## LUBRICATION

Centralized lubrication system is provided for lubrication all difficult-to-reach parts on the components, such as boom and arm

## HYDRAULIC SYSTEM

Main Pump	
Type	: Double variable displacement axial piston pumps
Max. Flow	: 2 x 160 L/min
Pilot Pump	: Gear, 22 L/min
Relief Valves	
Attachment (Boom, Arm, Bucket)	: 330 kgf/cm <sup>2</sup>
Power Boost	: 360 kgf/cm <sup>2</sup>
Travel	: 360 kgf/cm <sup>2</sup>
Swing	: 260 kgf/cm <sup>2</sup>
Pilot	: 40 kgf/cm <sup>2</sup>
Cylinders	
Main Boom	: 2 x ø 110 x ø 75 x 1080 mm
Stick Cylinder	: 1 x ø 115 x ø 80 x 1225 mm
Bucket Cylinder	: 1 x ø 100 x ø 70 x 910 mm

## OPERA CONTROL SYSTEM

- Easy-to-use control panel and menus
- Overheat prevention and protection system without interrupting the work
- Improved fuel economy and productivity
- Automatical powerboost switch-on and switch-off
- Automatical electric power-off
- Maintenance information and warning system
- Selection of multi-language on control panel
- Rear-view, arm-view camera (Optional)
- Maximum efficiency by selection of power and work modes
- Possibility to register 26 different operating hours
- Automatic preheating
- Error mode registry and warning system
- Anti-theft system with personal code
- Real time monitoring of operational parameters such as pressure, temperature, engine load
- Hidromek Smartlink (Optional)
- Cruise control travel speed
- Auto-Idle and automatic deceleration system

## SWING SYSTEM

Swing Motor	: Axial piston type integrated with shock absorber valves
Reduction	: 2 stage planetary gear box.
Swing Brakes	: Hydraulic multi disc type.
Swing Speed	: 13,9 rpm

## CAPACITY

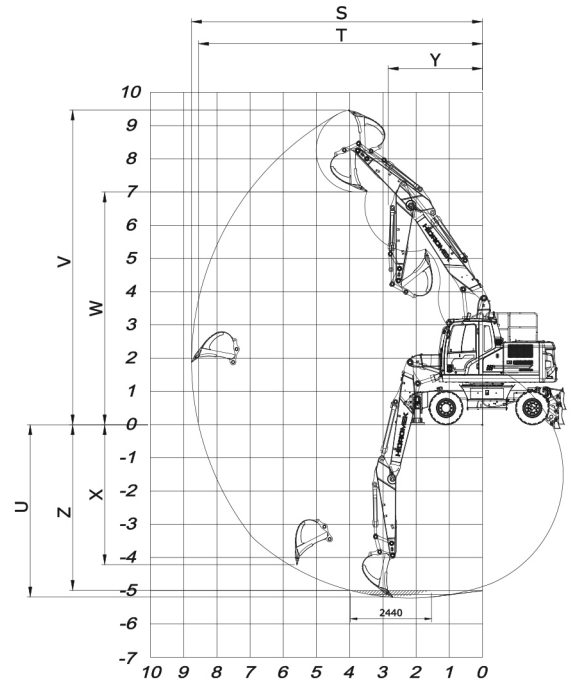
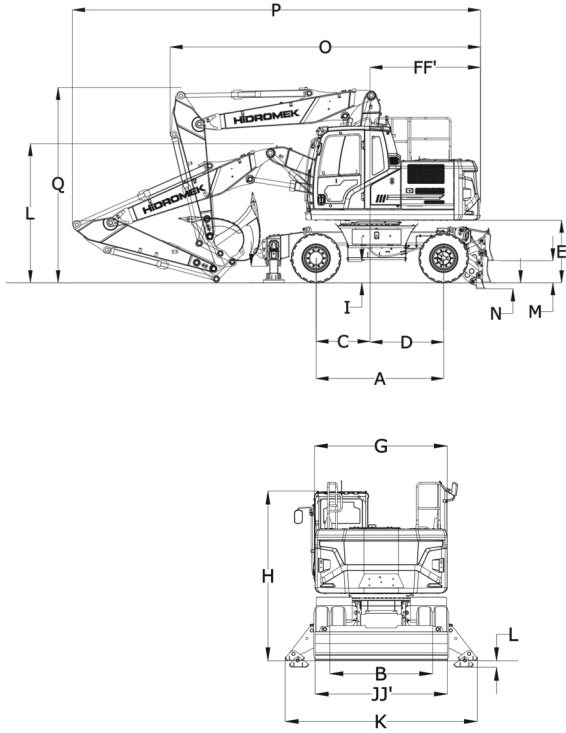
Fuel Tank	: 280 L	Engine Oil	: 16 L
Hydraulic Tank	: 120 L	Radiator	: 21 L
Hydraulic System	: 235 L		

## ELECTRICAL SYSTEM

Voltage	: 24V
Battery	: 2 x 12V x 100 Ah
Alternator	: 24V / 50 A
Starting Motor	: 24V / 4,0 kW

## WEIGHT

Standard machine operating weight : 16.600 kg  
Operational weight, complying with the ISO 6016 standards, includes full fuel tank, hydraulic system and other liquids, 75kg operator weight and standard equipped machine weight. Optional equipments are not included.



## GENERAL DIMENSIONS

Boom Dimension	5093 mm		
Arm Dimension	*2300 mm	2000 mm	2600 mm
A - Axle Distance	2600 mm		
B - Thread	1944 mm		
C - Rotation Axis – Front Axle Distance	1500 mm		
D - Rotation Axis – Rear Axle Distance	1100 mm		
E - Upper Chassis to Ground Clearance	1280 mm		
F - Counterweight Distance	2250 mm		
F' - Counterweight Turning Radius	2310 mm		
G - Upper Frame Width	2500 mm		
H - Cab Height	3185 mm		
I - Outrigger Ground Clearance	355 mm		
J - Width at Tires (9,0-20/18R19,5/10,0-20)	2500 mm		
K - Outrigger Width (Overall)	3634 mm		
L - Outrigger Digging Depth	122 mm		
M - Dozer Blade Ground Clearance	447 mm		
N - Dozer Blade Digging Depth	124 mm		
O - Overall Length / Travel	6325 mm	6255 mm	7425 mm
P - Overall Length/ Transport	8315 mm	8125 mm	8265 mm
Q - Boom Height / Travel	3975 mm	4025 mm	3835 mm
R - Boom Height / Transport	2835 mm	2995 mm	2985 mm

\*Standard

## WORKING DIMENSIONS

Boom Dimension	5093 mm		
Arm Dimension	*2300 mm	2000 mm	2600 mm
S - Maximum Digging Reach	8790 mm	8510 mm	9100 mm
T - Maximum Digging Reach at Ground Level	8580 mm	8290 mm	8900 mm
U - Maximum Digging Depth	5260 mm	4960 mm	5560 mm
V - Maximum Digging Height	9500 mm	9290 mm	9770 mm
W - Maximum Dumping Clearance	6940 mm	6730 mm	7200 mm
W' - Minimum Dumping Clearance	3080 mm	3370 mm	2790 mm
X - Maximum Vertical Digging Depth	4560 mm	4280 mm	4900 mm
Y - Minimum Swing Radius	3030 mm	2920 mm	3120 mm
Z - Maximum Digging Depth (2440 mm level)	5150 mm	4850 mm	5460 mm

\*Standard

## DIGGING PERFORMANCE

Standard Bucket Capacity (SAE)	0,60 m <sup>3</sup>
Bucket Digging Force (Power Boost) ISO	10.800 kgf
Arm Crowd Force (Power Boost) ISO	7.800 kgf